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WATER SUPPLY OUTLOOK FOR WASHINGTON



U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with

DEPARTMENT OF ECOLOGY STATE OF WASHINGTON

AS OF
APR. 1, 1975

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

*Cover Photo: Cabins near Sacajawea Snow Course
in Bridger Mountains, Montana.*

SCS PHOTO 11-P480-15

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 111, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	204 E. 5th. Ave., Room 217, Anchorage, Alaska 99501
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia



WATER SUPPLY OUTLOOK FOR WASHINGTON

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

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WATER SUPPLY OUTLOOK

State of Washington
April 1, 1975

SNOW COVER

Last years very excellent snow pack has generally not been exceeded during this 1974-75 snow build up season. A few drainages that were exceptions to the rule last year, again are exceptions this year. Six watersheds are now reported to have the same or a greater amount of water equivalent on the watershed than was reported last year; the rest, all less, ranging down to 35 percent less. When comparing this years snow pack to that which occurred in the very dry year of 1973, we have considerably more snow in all watersheds and on one, the Cedar River, the snow pack is 522 percent greater than was measured during that year. This number explains, in part, the elevation differences that we are experiencing this year. The lower elevation snow courses have more snow, percentagewise, than those at the upper elevations. This, in turn, will mean earlier runoff with some flashy peaks.

RESERVOIRS

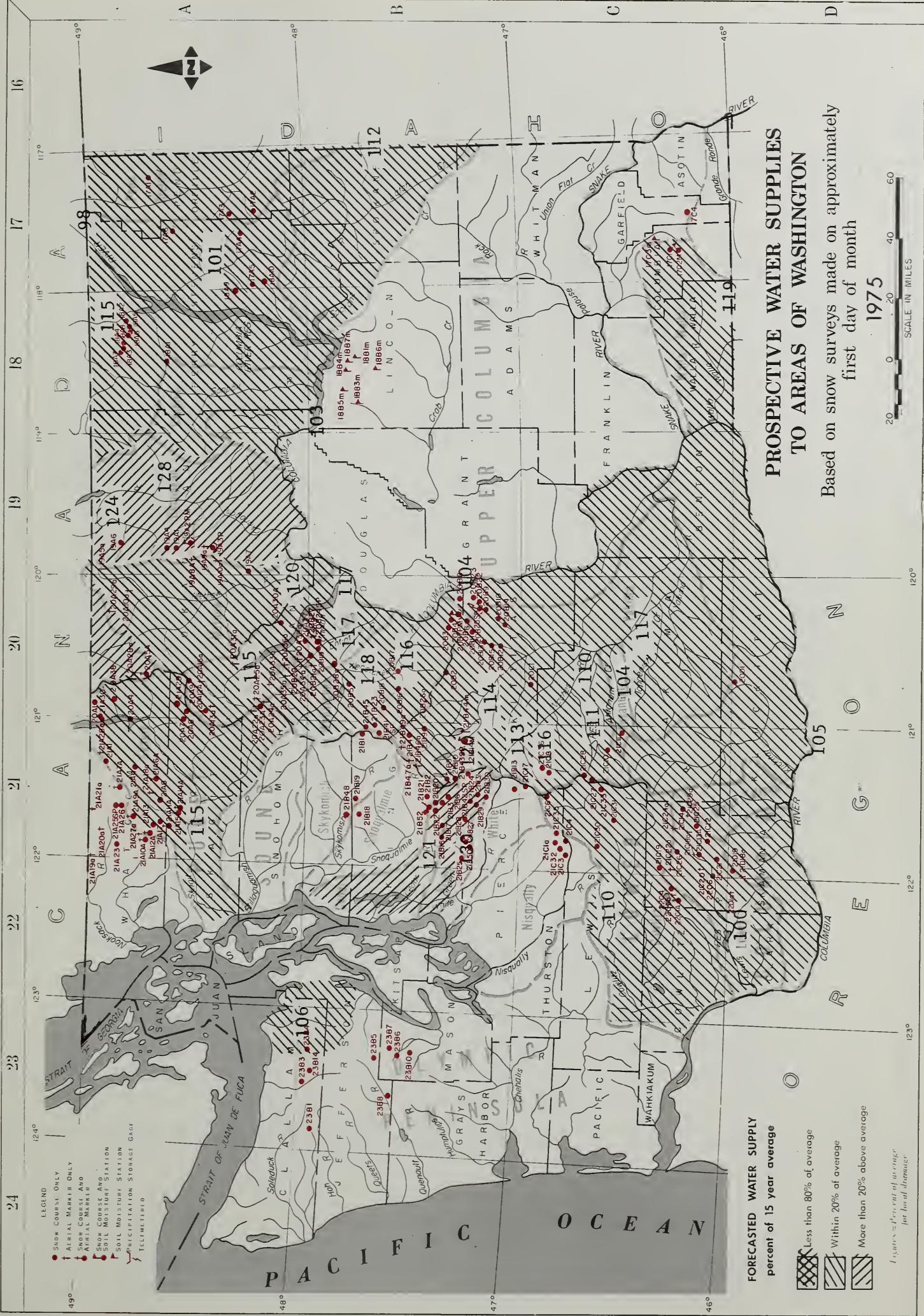
With minor exceptions, all reservoirs have well above normal amounts of water in storage at this time. The major irrigation reservoirs have water in storage only 62 percent of capacity and 90 percent of average. Power reservoirs have been reduced even further to take advantage of the power generation needs this winter and the abundance of snow behind the reservoirs.

PRECIPITATION

The National Weather Service reported rainfall at the valley stations to be above normal only in the northeastern and north-central portions of the state during the month of March. Winter precipitation, from November through March, still is well above average, while the fall rainfall amount, as previously reported, was negligible, ranging from 70 percent to 90 percent below normal. Soils beneath the snow pack are fairly dry and so some of this current snow pack will be required to bring these soil mantles to field capacity before runoff can take place.

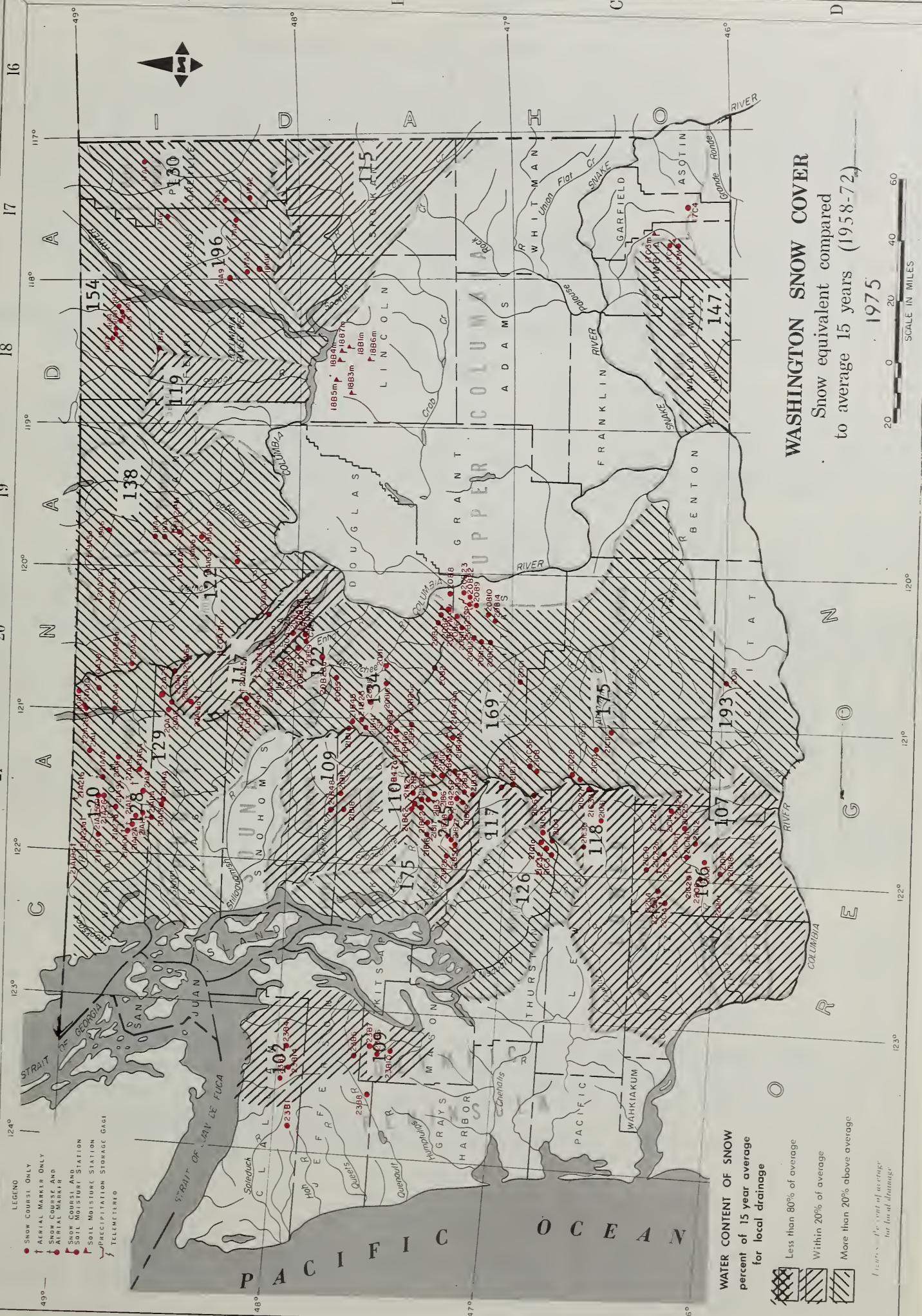
STREAMFLOW

During the month of March, river runoff was generally below normal except from certain low elevation streams or where there was excessive evacuation of reservoirs, in anticipation of above normal inflows. The Palouse River, as measured at Hooper, had a flow 101 percent greater than average and the Okanogan at Tonasket had a flow 51 percent above normal. These are examples of the two conditions just mentioned. Forecasts of streamflow are expected to be near normal along the main stem of the Columbia and on the tributary basins from Montana. The Okanogan River system is expected to flow 24 percent and 28 percent above normal with the Methow expecting a 20 percent above normal flow. The Yakima, Wenatchee and Chelan River systems are expected to have an outflow between 10 percent and 20 percent above normal. On the Lower Columbia River system, the Lewis River is expected to have a normal outflow while the Cowlitz and Walla Walla Rivers are expected to be 10 percent and 20 percent above. On the west side, the rivers on the Olympic Peninsula are expected to flow less than 10 percent above normal while the Skagit, Cedar and Green River systems should have an outflow from 15 percent to 30 percent greater than average. Numerical forecasts can be found immediately following this narrative statement.



INDEX to WASHINGTON SNOW COURSES, SOIL MOISTURE STATIONS and PRECIPITATION STATIONS

NAME	NUMBER	SEC.	TWP.	RANGE	ELEV.	NAME	NUMBER	SEC.	TWP.	RANGE	ELEV.	NAME	NUMBER	SEC.	TWP.	RANGE	ELEV.
UPPER COLUMBIA DRAINAGE																	
Pend Oreille River	Trough #2					Wenatchee River (continued)	208255F	10	20N	20E	5310	Divide Meadow	21029a	21	39N	12E	2200
Boyer Mountain	17A2	7	31N	43E	5250	Colockum Creek	21025	28	8N	9E	3500	Beaver Creek Trail	21A1	9	39N	12E	5680
Bunchgrass Meadow	17A1	24	37N	44E	5000	Colockum Creek Upper	20822	11	20N	20E	5300	Beaver Pass	21A28a	26	40N	12E	6000
Winchester Creek	17A3	30	33N	43E	2970	Colockum Creek Lower	20825	1	20N	20E	4300	Brown Top	21025a	24	38N	16E	5900
Boulder Road	18A2	36	39N	36E	1450	Squilchuck Creek	2083	12	21N	19E	4400	Marble Mountain	21026	36	8N	6E	2000
Butte Creek	18A3	28	39N	35E	4070	Beehive Springs	2084	18	21N	20E	3400	New Muddy River	21019	22	6N	7E	3100
Cabin Creek	18A8	5	38N	36E	3170	Scout -A-Vista						Oldman Pass	21038	8	40N	16E	5000
Goat Creek	18A4	26	39N	35E	3595	Stemilt Creek						Plains of Abraham	21021a	35	36N	16E	3500
Snow Cap Creek	18A5	3	38N	36E	2150	Jump-Off	2088	34	21N	20E	4450	Smith Creek Road	21024	29	36N	14E	1900
Snow Cap Trail	18A6	5	38N	36E	2720	Stemilt Slide	2086	30	21N	20E	5000	Spencer Meadow	21020a	16	8N	7E	2800
Summit G. S.	18A7	20	39N	35E	4600	Upper Wuceler	2087PN	30	21N	20E	4400	Surprise Lakes	21013a	14	7N	8E	4250
Coville River						Crob Creek						Table Mountain	21021a	20	9N	9E	4200
Baird	17A6	19	36N	42E	3215	Creston-Kunz	18B1m	32	27N	34E	2440	Timbered Peak	21018a	36	6N	6E	3000
Carlson	18A9	34	38N	38E	2885	Jack Woods	18B3m	28	27N	31E	2750	Cayuse Pass	21019	33	10N	10E	5300
Chenoweth	17A1	11	32N	41E	4925	Krause	18B4m	21	27N	33E	2420	Mosquito Meadows	21032	28	15N	10E	4100
Stranger Mountain	17A5	26	31N	38E	4990	Sheffels	18B5m	17	27N	32E	2378	Ohanapecosh	21032	17	38N	11E	5200
Togo	18A10	6	29N	38E	3370	Wheatridge	18B7m	24	27N	33E	2440	Packwood Lake	21063	21	13N	11E	5400
Sherman Creek Pass	18A1	19	36N	35E	5350	Altanum R. S.	21018m	30	21N	20E	5000	Digital Peak	21014	36	10N	10E	800
Okanogan River						Big Boulder Creek	21C1	24	12N	14E	3100	Potato Hill	21014	27	38N	10E	3600
Clark	19A8a	2	36N	23E	7000	Bumping Lake	21C8	35	23N	14E	3200	Willamette Creek	21030	18	37N	9E	3400
Muckleshoot	19A8a	20	36N	24E	6750	Colockum Pass	21C36	13	16N	12E	3400	Glacier Creek	21A13	22	37N	8E	1600
Mutton Creek No. 1	19A1	30	37N	24E	5700	Cooke Creek	2089	20	20N	20E	5370	Panorama New	21A15	18	36N	9E	4500
Mutton Creek No. 2	19A4	19	37N	24E	6000	Domery Flat	20810	17	19N	20E	4123	Panorama Snow Pillow	21A15	25	37N	9E	5200
Paysaeten	20A3a	32	40N	18E	4300	Fish Lake	21843m	15	20N	14E	2200	Twin Lakes	21A21a	16	40N	9E	5200
Rusty Creek	19A3P	18	35N	24E	4000	Green Lake	21C10	34	24N	14E	3371	Paradise Park (New)	21035	13	15N	8E	5500
Salmon Meadows	19A10a	15	35N	23E	4500	Grouse Camp	20812	29	21N	19E	35385	Stem Grade	21C1	13	15N	8E	5050
Starvation Mtn.	19A10a	15	35N	24E	6750	High Creek	20812	24	20N	19E	293C	Ghost Forest	2104	23	15N	8E	4550
Tout's Coulee	19A6	30	39N	25E	2845	Joe Lake	21846a	22	23N	12E	4624	Longmire	21033	29	15N	8E	2760
Method River	20A10a	10	38N	20E	6400	Lemah Creek	21847a	7	23N	13E	3327	Paradise Park	21035	13	15N	8E	4400
Billy Goat Pass	20A29a	8	39N	20E	7000	Manastash	20C1	24	17N	16E	39335	Stem Grade	21C1	13	15N	8E	4400
Dollar Watch	20A5A	7	37N	18E	6500	Morse Lake	21C17	6	16N	11E	5400	White River	21B13	30	18N	11E	6000
Harts Pass	19A5a	15	40N	23E	7000	Nanum	20813	4	20N	19E	3875	Green River	21B4	18	20N	11E	1800
Horseshoe Basin	19A5a	15	40N	23E	4650	Trail Creek	20814	20	19N	20E	3360	Airstrip	21B25	27	21N	8E	1200
Loup Loop	19A7	36	34N	23E	4650	Tunnel Avenue	2188a	13	21N	11E	2450	Charley Creek	21B25	21	21N	9E	3200
Chetlon Lake Basin						Van Epps Pass	20826a	16	23N	15E	5925	Longmire	21B27	14	20N	8E	2900
Cloudy Pass	20A22a	12	31N	15E	6500	Walters Flat	20B15	22	20N	19E	3360	Paradise Pass	21B28	12	20N	8E	4700
Greenwood Flat	20A25a	3	31N	16E	3540	Wapato Lake	21B19a	12	23N	13E	3024	Black and White Lakes	21B32	18	20N	5W	5200
Little Meadows	20A24a	8	31N	16E	5275	White Pass (East Side)	21C28	2	13N	11E	4500	Four Stream	21B32	18	20N	5W	3000
Lyman Lake	20A25a	18	31N	16E	5900	White Pass (Leach Lake)	21C27	1	13N	11E	4500	Home Sweet Home	21B32	21	21N	9E	3000
Park Creek Flat	20A13a	19	34N	16E	2220	Park Creek						Sundown Pass	21B32	31	22N	10E	3300
Park Creek Ridge	20A12a	18	34N	16E	4600	Petersons	20A16a	3	34N	17E	3730	Stampede Pass	21B10	25	21N	11E	2500
Rainy Pass	20A9	21	35N	17E	4780	South Pass	20A30a	32	31N	20E	6300	Twin Camp	21B30	18	19N	11E	4100
Safety Harbor	20A31a	34	33N	18E	6500	Tommy Creek						Black and White Lakes	21B32	16	24N	5W	4200
War Creek Pass						White Salmon Pass	2082a	19	28N	18E	5425	Four Stream	21B30	18	24N	5W	4700
Blue Creek G. S.	2082a	19	28N	19E	5425	Wenatchee River	21841	13	24N	19E	5925	Home Sweet Home	21B32	1	23N	6W	3000
8-rift	20819	54	28N	19E	1600	Wenatchee River	21C12	35	7N	8E	5700	Sundown Pass	21B32	25	24N	7W	3900
Entiat Meadows	20A34a	2	29N	17E	3150	White Salmon River	21841	13	24N	19E	5925	Deer Lake	23B1	14	28N	9W	3900
Entiat River Trail	20A34a	2	29N	17E	4720	White Salmon River	21841	13	24N	19E	5925	Elwha River	23B3	36	29N	7W	4500
Four Mile Ridge	20A27a	15	28N	19E	7000	White Salmon River	21841	13	24N	19E	5925	Elwha River	23B4	1	28N	5W	5200
Fox Camp	20A56a	17	30N	18E	6510	White Salmon River	21841	13	24N	19E	5925	Elwha River	23B4	31	28N	5W	5200
Pope Ridge	20A28a	22	29N	18E	4300	White Salmon River	21841	13	24N	19E	5925	Elwha River	23B4	31	28N	5W	5200
Pop Ridge	20A28a	22	29N	18E	4300	White Salmon River	21841	13	24N	19E	5925	Elwha River	23B4	31	28N	5W	5200
Pugh Ridge	20A32a	34	30N	18E	6400	White Salmon River	21841	13	24N	19E	5925	Elwha River	23B4	31	28N	5W	5200
Shady Pass	20A32	20	29N	19E	6200	White Salmon River	21841	13	24N	19E	5925	Elwha River	23B4	31	28N	5W	5200
Snow 8-rush Creek	20A35a	21	30N	17E	3850	White Salmon River	21841	13	24N	19E	5925	Elwha River	23B4	31	28N	5W	5200
Tommy Creek	20A21a	10	28N	18E	5300	White Salmon River	21841	13	24N	19E	5925	Elwha River	23B4	31	28N	5W	5200
White Salmon River						White Salmon River	21841	13	24N	19E	5925	Elwha River	23B4	31	28N	5W	5200
Berne-Mil Creek	21823	7	26N	15E	3170	Cultus Creek	21841	13	24N	19E	5925	Elwha River	23B4	31	28N	5W	5200
Berne-Mil Creek (New)	21841	13	26N	14E	3240	Cultus Creek	21841	13	24N	19E	5925	Elwha River	23B4	31	28N	5W	5200
Entiat River Pass No. 2	20B2	35	22N	17E	4270	Cultus Creek	21841	13	24N	19E	5925	Elwha River	23B4	31	28N	5W	5200
Chiawaukum G. S.	20816	4	25N	17E	1810	Cultus Creek	21841	13	24N	19E	5925	Elwha River	23B4	31	28N	5W	5200
Lake Wenatchee R. S.	20B5	35	27N	17E	1970	Cultus Creek	21841	13	24N	19E	5925	Elwha River	23B4	31	28N	5W	5200
Leavenworth R. S.	20817	1	24N	17E	1127	Blue Lake	21C22a	19	9N	8E	4800	Cultus Creek	21841	13	24N	19E	5925
Merritt	20818	4	26N	16E	210	Blue Lake	21C21	25	8N	7E	2200	Cultus Creek	21841	13	24N	19E	5925
Stevens Pass	21B1	14	26N	13E	4070	Blue Lake	21C21	25	8N	7E	2200	Cultus Creek	21841	13	24N	19E	5925
Stevens Pass Sand Shed	21845	12	26N	19E	3700	Council Pass	21C18a	24	9N	9E	4200	Cultus Creek	21841	13	24N	19E	5925
LOWER COLUMBIA DRAINAGE																	
Asotin Creek	20829a	19	28N	18E	5425	Asotin Creek	21C12	35	7N	8E	4000	White Salmon River	21841	31	27N	9E	3500
Spruce Springs	20819	54	28N	19E	1600	Mill Creek	21C4	9	8N	40E	5700	White Salmon River	21841	31	27N	9E	3500
White Salmon River						Mill Creek	21C4	9	8N	40E	5700	White Salmon River	21841	31	27N	9E	3500
City Cabin	2183	10	21N	10E	5700	White Salmon River	21841	31	27N	9E	5700	White Salmon River	21841	31	27N	9E	3500
Mt. Gardner Aux.	21B21	30	21N	10E	5700	White Salmon River	21841	31	27N	9E	5700	White Salmon River	2				



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STREAMFLOW FORECASTS - APRIL 1975

The following summarized runoff forecasts are based principally on mountain snow-cover and on the assumption that precipitation and temperature will be near average from the present time to the end of the forecast period. Appreciable deviations from normal of temperature and/or precipitation will correspondingly modify these forecasts. Streamflow figures for 1974 are preliminary and subject to revision.

Basin, Stream and Station	Forecast Runoff 1975	Seasonal Streamflow in Thousands of Acre-Feet						15-Yr Average 58-72		
		% 15-Yr. Avg.	Fore- cast period	1974	1973	1972				
<u>COLUMBIA BASIN</u>										
<u>Columbia River System</u>										
Columbia River at Birchbank 1/	45700	98	Apr-Sep	54227	34796	56680	46430			
	36800	98	Apr-Jul	44492	27876	46587	37548			
	26200	95	Apr-Jun	31893	20203	34333	27549			
Columbia River at Grand Coulee 1/	71000	103	Apr-Sep	85139	45849	85860	68868			
	60500	104	Apr-Jul	73671	38193	73431	58379			
	46800	102	Apr-Jun	57033	29886	57727	46060			
Columbia River b1 Rock Island Dam 1/	78400	104	Apr-Sep	96939	49117	97430	75337			
	65800	103	Apr-Jul	84480	41200	84085	64192			
	52000	103	Apr-Jun	65246	32032	66051	50604			
Columbia River at The Dalles, Or 1/	110000	105	Apr-Sep	139724	65162	135452	104670			
	94000	105	Apr-Jul	123569	54260	118552	89893			
	76500	105	Apr-Jun	99282	43395	96933	73158			
<u>Pend Oreille River System</u>										
Pend Oreille River b1. Box Canyon	16400	103	Apr-Sep		8311	20294	15953			
	15000	102	Apr-Jul		7614	18724	14688			
	12750	100	Apr-Jun		6756	16109	12777			
<u>Kettle River System</u>										
Kettle River nr. Laurier	2160	115	Apr-Sep	2831	1121	2289	1873			
	2090	116	Apr-Jul	2752	1093	2205	1793			
	1850	113	Apr-Jun	2476	1020	1965	1640			

1/ Observed flow corrected for storage in any of the following reservoirs which are above the station: Kootenay Lake, Hungry Horse, Flathead Lake, Pend Oreille Lake, F. D. Roosevelt Lake, Lake Chelan, Coeur d'Alene Lake, Brownlee, Noxon Reservoir and pumpage at F. D. Roosevelt Lake.

Basin, Stream and Station	Forecast Runoff 1975	Seasonal Streamflow in Thousands of Acre-Feet						15-Yr Average 58-72		
		% 15-Yr. Avg.	Fore- cast Period	1974	1973	1972				
<u>Kettle River System (Cont.)</u>										
<u>Colville River</u>										
at Kettle Falls	150	101	Apr-Sep	286	54	114	148			
	140	102	Apr-Jul	269	50	103	137			
	130	102	Apr-Jun	252	48	94	128			
<u>Spokane River System *</u>										
Spokane River	3350	112	Apr-Sep		1140	4002	2983			
at Post Falls, ID <u>2/</u>	3250	112	Apr-Jul		1082	3875	2899			
	3100	112	Apr-Jun		1022	3644	2773			
<u>Okanogan River System</u>										
Similkameen River	1880	124	Apr-Sep	2216	736	3259	1517			
nr. Nighthawk	1770	124	Apr-Jul	2092	697	3090	1424			
	1520	124	Apr-Jun	1710	621	2568	1222			
Okanogan River	2210	128	Apr-Sep	2757	765	3852	1723			
nr. Tonasket	2060	130	Apr-Jul	2534	707	3523	1582			
	1740	129	Apr-Jun	2029	622	2895	1349			
<u>Methow River System</u>										
Methow River	1240	120	Apr-Sep		512	1959	1031			
nr. Pateros	1160	120	Apr-Jul		476	1819	963			
	1000	120	Apr-Jun		417	1524	832			
<u>Chelan River System</u>										
Chelan River	1470	117	Apr-Sep	1765	777	1866	1253			
at Chelan <u>3/</u>	1310	118	Apr-Jul	1524	680	1619	1112			
	1040	118	Apr-Jun	1127	544	1250	881			
Stehokin River	1040	115	Apr-Sep		541	1235	904			
at Stehokin	885	114	Apr-Jul		447	1044	776			
	660	110	Apr-Jun		352	772	600			
Entiat	280	117	Apr-Sep		145	398	239			
nr. Ardenvoir	255	116	Apr-Jul		131	361	220			
	210	118	Apr-Jun		113	283	180			

* Forecasts made by Jack A. Wilson, Soil Conservation Service, Boise, Idaho.

2/ Observed flow corrected for storage in Coeur d'Alene Lake and diversions by Spokane Valley Farms Company and Rathdrum Prairie Canals.

3/ Observed flow corrected for storage in Lake Chelan.

Basin, Stream and Station	Forecast Runoff 1975	Seasonal Streamflow in Thousands of Acre-Feet						15-Yr. Average 58-72
		% 15-Yr. Avg.	Fore- cast period	1974	1973	1972		
<u>Wenatchee River System</u>								
Wenatchee River at Plain	1550 1390 1100	118 117 115	Apr-Sep Apr-Jul Apr-Jun	1910 1652 1188	790 709 589	1926 1686 1272	1312 1187 956	
Wenatchee River at Peshastin	2070 1900 1540	116 117 116	Apr-Sep Apr-Jul Apr-Jun	2556 2232 1632	1033 938 786	2787 2464 1883	1786 1629 1324	
Ste milt Basin nr. Wenatchee	145	105	May-Sep				145*	138*
<u>Yakima River System</u>								
Yakima River Nr. Martin 4/	170 155 130	120 119 112	Apr-Sep Apr-Jul Apr-Jun	231 214 170	83 76 70	213 192 160	142 131 116	
Yakima River at Cle Elum 5/	1100 1010 880	114 115 115	Apr-Sep Apr-Jul Apr-Jun		555 489 433	1515 1374 1156	965 877 764	
Yakima River nr. Parker 6/	2020 1990 1850	117 117 117	Apr-Sep Apr-Jul Apr-Jun		582 590 598	3231 3071 2694	1730 1701 1580	
Kachess River nr. Easton 7/	150 140 125	120 118 118	Apr-Sep Apr-Jul Apr-Jun	207 193 156	66 63 59	196 182 153	125 118 106	
Cle Elum River nr. Roslyn 8/	570 525 450	120 120 121	Apr-Sep Apr-Jul Apr-Jun	745 664 500	285 255 220	750 673 538	477 437 372	

* Thousands of Miners' inches.

4/ Observed flow corrected for storage in Lake Keechelus.

5/ Observed flow corrected for storage in Keechelus, Kachess and Cle Elum Lakes and diversion by Kittitas Canal.

6/ Observed flow corrected for storage in Keechelus, Kachess, Cle Elum, Bumping and Rimrock Lakes and diversions by Roza, Union Gap, New Reservation, Old Reservation and Sunnyside Canals.

7/ Observed flow corrected for storage in Lake Kachess.

8/ Observed flow corrected for storage in Lake Cle Elum.

Basin, Stream and Station	Forecast Runoff 1975	Seasonal Streamflow in Thousands of Acre-Feet					
		% 15-Yr. Avg.	Fore- cast period	1974	1973	1972	15-Yr. Average 58-72
<u>Yakima River System (Cont.)</u>							
Bumping River nr. Nile 9/	170 155 130	116 116 116	Apr-Sep Apr-Jul Apr-Jun	230 206 152	74 68 61	228 203 155	146 134 112
American River nr. Nile	145 135 110	113 114 110	Apr-Sep Apr-Jul Apr-Jun		70 65 58	186 169 137	128 118 100
Tieton River at Tieton Dam 10/	275 225 190	111 107 110	Apr-Sep Apr-Jul Apr-Jun	405 337 255	160 124 99	407 342 267	247 211 172
Naches River nr. Naches 11/	980 910 780	110 112 112	Apr-Sep Apr-Jul Apr-Jun		442 385 336	1477 1339 1106	889 810 698
Ahtanum Creek nr. Tampico 12/	50 45 40	104 102 103	Apr-Sep Apr-Jul Apr-Jun		21 18 16	75 69 59	48 44 39
<u>Lower Columbia River System</u>							
Mill Creek nr. Walla Walla	32 28 25	119 117 119	Apr-Sep Apr-Jul Apr-Jun		17 13 11	34 29 26	27 24 21
Lewis River at Ariel 13/	1340 1170 1050	100 100 100	Apr-Sep Apr-Jul Apr-Jun	1872 1684 1420	800 666 574	1597 1392 1236	1319 1151 1028
Cowlitz River Blw. Mayfield Dam	2320 2030 1740	110 110 110	Apr-Sep Apr-Jul Apr-Jun		1252 1068 904	3048 2672 2201	2106 1846 1578
Cowlitz River at Castle Rock 14/	2940 2580 2210	106 107 106	Apr-Sep Apr-Jul Apr-Jun	4296 3850 3158	1676 1419 1212	3819 3331 2782	2768 2416 2083

9/ Observed flow corrected for storage in Bumping Lake.

10/ Observed flow corrected for storage in Rimrock Lake.

11/ Observed flow corrected for storage in Bumping and Rimrock Lakes and diversions by Tieton, Selah Valley, Wapatox Canals and City of Yakima.

12/ Observed flow of North and South Forks (Combined).

13/ Observed flow corrected for storage in Lake Merwin, Yale and Swift Reservoirs.

14/ Observed flow corrected for storage in Mayfield Reservoir.

Basin, Stream and Station	Forecast Runoff 1975	Seasonal Streamflow in Thousands of Acre-Feet						15-Yr. Average 58-72
		% 15-Yr. Avg.	Fore- cast period	1974	1973	1972		

OLYMPIC PENINSULA

Dungeness River System

Dungeness River nr. Sequim	175	106	Apr-Sep	120	207	165
	150	109	Apr-Jul	98	171	137
	115	110	Apr-Jun	74	127	104

PUGET SOUND

Skagit River System

Skagit River at Newhalem	2600	115	Apr-Aug	2978	1519	3402	2260
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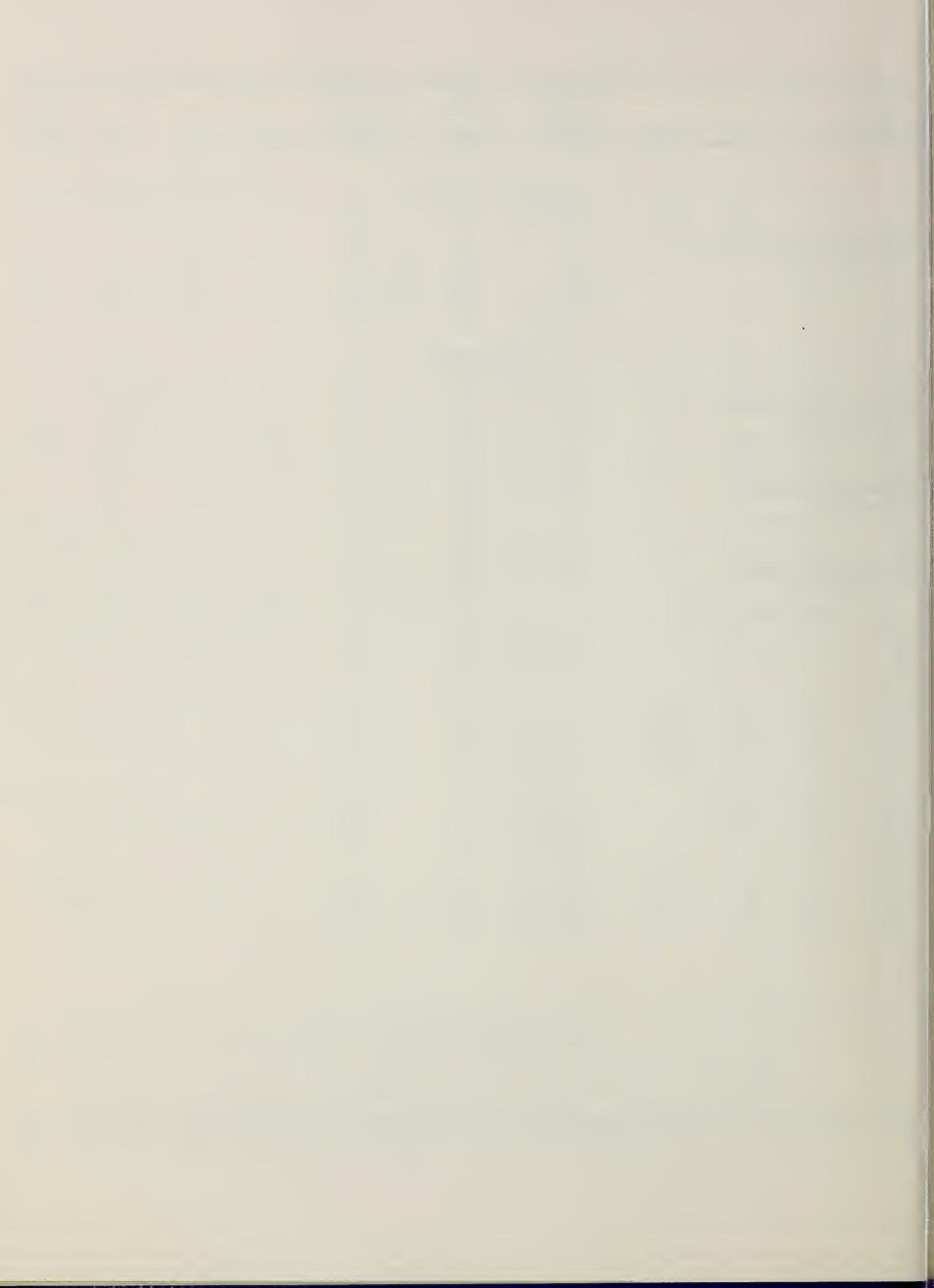
Cedar River System

Cedar River at Cedar Falls	110	121	Apr-Sep	53	122	91
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Green River System

Green River bl. Howard Hansen Dam	405	130	Apr-Sep	484	165	434	312
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15/ Observed flow corrected for storage in Diablo, Ross, and Gorge Reservoirs.



COMPARISON OF SNOW COVER WITH THAT OF PREVIOUS YEARS

The following tabulation of Washington stream basins presents the water content of the snow about April 1, 1975 as percent of the same date in 1974 and 1973 and average of record

Tributary Basin	No. of Courses	1975 Snow Water Expressed as percent of		
		1974	1973	1958-72 Avg.
	Average	Average	Average	
<u>UPPER COLUMBIA BASIN</u>				
Pend Oreille	18	104	183	130
Kettle	17	127	160	154
Colville	5	109	288	196
Spokane	16	82	259	115
Okanogan	43	90	163	138
Methow	10	69	157	122
Chelan	5	78	165	117
Entiat	10	80	184	122
Wenatchee	10	85	333	134
Yakima	26	91	248	169
Ahtanum	2	100	157	175
<u>LOWER COLUMBIA</u>				
Mill Creek	3	72	379	147
Klickitat	1	102	-	193
White Salmon	2	65	238	107
Lewis	18	76	246	106
Cowlitz	10	78	221	118
<u>PUGET SOUND</u>				
Nisqually	4	79	201	126
White	3	80	170	117
Green	8	79	292	245
Cedar	7	87	622	175
Snoqualmie	3	64	254	110
Skykomish	3	74	221	109
Skagit	14	104	209	129
Baker	11	90	155	128
Nooksack	5	67	139	120
<u>OLYMPIC PENINSULA</u>				
Skokomish	4	73	157	109
Elwha	1	73	162	102

RESERVOIR STORAGE - 1000 ACRE FEET

BASIN OR STREAM	RESERVOIR	USABLE 1/ CAPACITY	Measured (April)			
			1975	1974	1973	Normal*
<u>COLUMBIA</u>						
Spokane	Coeur d'Alene Lake	225.1	85.5	263.5	83.9	174.1
Columbia	Franklin D. Roosevelt Lake	5232.0	1682.3	-1878.4	1546.3	1821.8
Columbia	Banks Lake	761.8	688.2	690.8	592.0	581.4
Okanogan	Conconully Reservoir	13.0	11.7	7.2	11.8	11.8
Okanogan	Salmon Lake	10.5	9.2	7.4	9.5	7.5
Chelan	Lake Chelan	676.1	62.0	157.0	121.4	179.3
<u>YAKIMA</u>						
Yakima	Keechelus Lake	157.8	96.1	114.4	112.1	107.8
Kaches	Kachess Lake	239.0	163.8	122.1	196.8	190.2
Cle Elum	Lake Cle Elum	436.9	266.4	225.0	340.5	283.2
Bumping	Bumping Lake	33.7	2.7	5.8	11.7	11.4
Tieton	Rimrock Lake	198.0	128.6	151.2	160.8	141.7
<u>PUGET SOUND</u>						
Skagit	Ross Reservoir	1202.0	531.4	785.7	734.2	768.5
Skagit	Diablo Reservoir	90.6	85.3	83.8	87.5	85.5
Skagit	Gorge Reservoir	9.8	8.2	8.2	8.4	-

1/ Based on Active Storage

* 15-year Average 1958-72

SOIL MOISTURE - APRIL

Drainage Basin and Station	Number	Elev.	Profile Depth	Inches Total Capacity	Soil Moisture Content		
					1975	1974	1973
<u>OKANOGAN</u>							
Salmon Meadows	19A2M	4500	48	5.4	3.1	3.7	3.0
Trout Creek	3-M	3600	48	7.3	3.4	4.2	3.7
<u>YAKIMA</u>							
Domery Flat	21B20m	2200	48	6.9	-	4.9	5.2
Lake Cle Elum	21B14M	2200	48	12.8	-	9.3	9.2
<u>WALLA WALLA</u>							
Couse	17C3m	3650	48	11.1	9.4	10.3	7.6
Helmers	17C2M	4400	48	12.0	11.2	10.1	10.6
<u>WENATCHEE</u>							
Upper Wheeler	20B7M	4400	48	12.7	8.6	11.1	8.9

FALL SOIL MOISTURE

Drainage Basin and Station	Number	Elev.	Profile Depth	Inches Total Capacity	Soil Moisture Content		
					1974	1973	1972
<u>OKANOGAN</u>							
Salmon Meadows	19A02M	4500	48	5.4	1.8	2.6	2.8
Trout Creek	3-M	3600	48	7.3	3.0	2.8	3.3
<u>YAKIMA</u>							
Domery Flat	21B20m	2200	48	6.9	-	2.6	4.1
Lake Cle Elum	21B14M	2200	48	12.8	-	6.1	8.7
<u>WALLA WALLA</u>							
Couse	17C3m	3650	48	11.1	-	5.6	6.0
Helmers	17C2M	4400	48	12.0	-	7.6	7.7
<u>WENATCHEE</u>							
Upper Wheeler	20B7M	4400	48	12.7	5.4	6.0	5.8

PRECIPITATION 1/

Division Averages and Departures

Drainage Divisions	FALL		WINTER	
	Sept-Oct Observed	1974 <u>2/</u> Departure	Nov. 1974 Observed	Mar. 1975 <u>2/</u> Departure
Columbia in Canada	1.22	-3.25	13.42	+0.67
Pend Oreille - Spokane	0.71	-3.77	21.69	+2.99
Northeastern Washington	0.30	-2.48	14.78	+3.67
Southeastern Washington	0.31	-2.92	15.27	+1.80
Central Washington	1.21	-3.54	31.75	+4.22
North Central Washington	0.37	-1.25	7.93	+1.21
Northwest Slope Cascades	3.25	-9.44	59.41	+7.18
Southwest Slope Cascades	2.49	-6.19	44.71	+3.07
Northeastern Washington		- Lower Spokane, Colville, Sanpoil and lower Kettle Drainages.		
Southeastern Washington		- Touchet, Tucannon and Palouse Drainages.		
Central Washington		- Yakima, Wenatchee and Chelan Drainages.		
North Central Washington		- Methow and Okanogan Drainages.		
Northwest Slope Cascades		- Puget Sound Drainages.		
Southwest Slope Cascades		- Lower Columbia Drainages.		

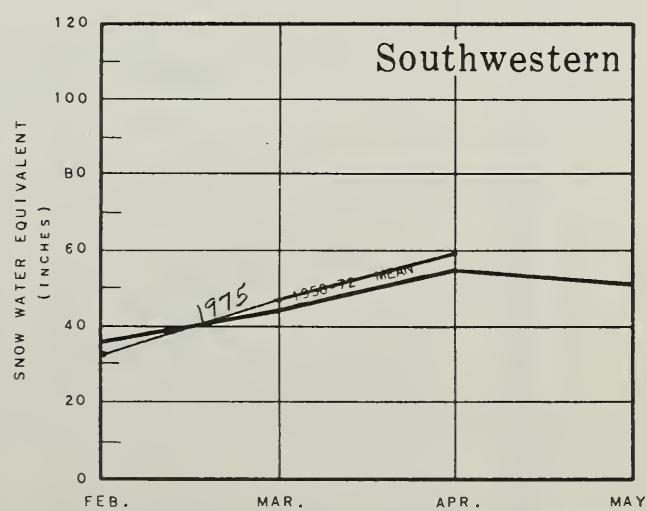
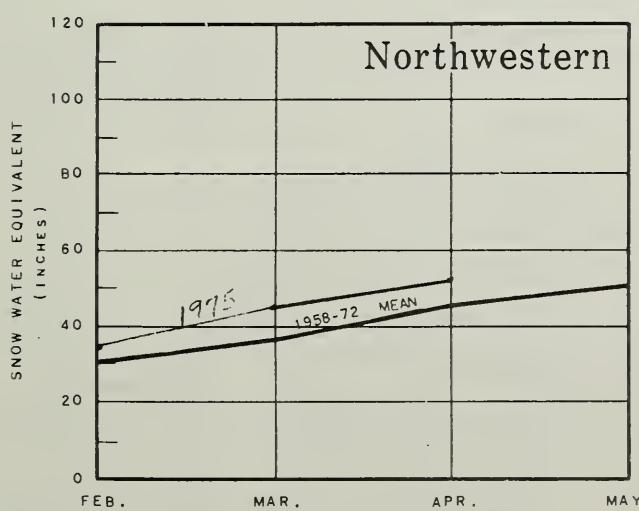
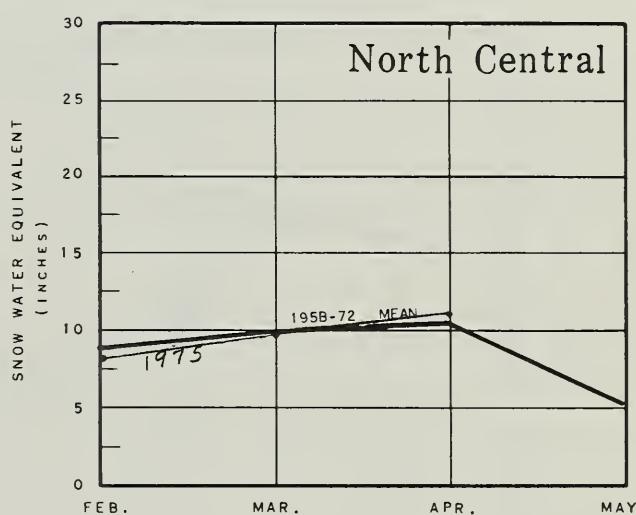
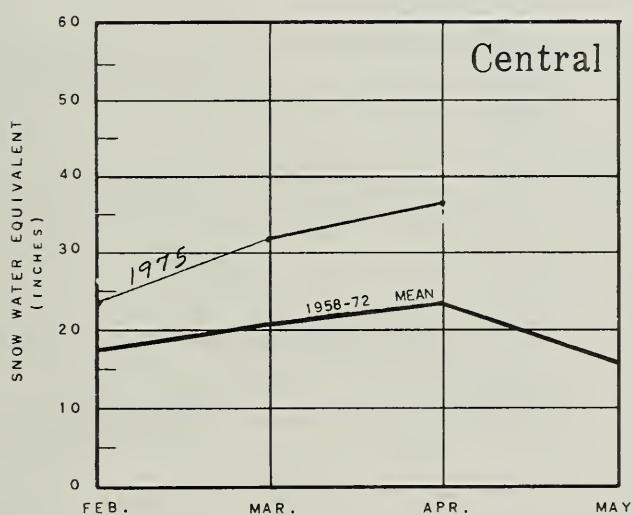
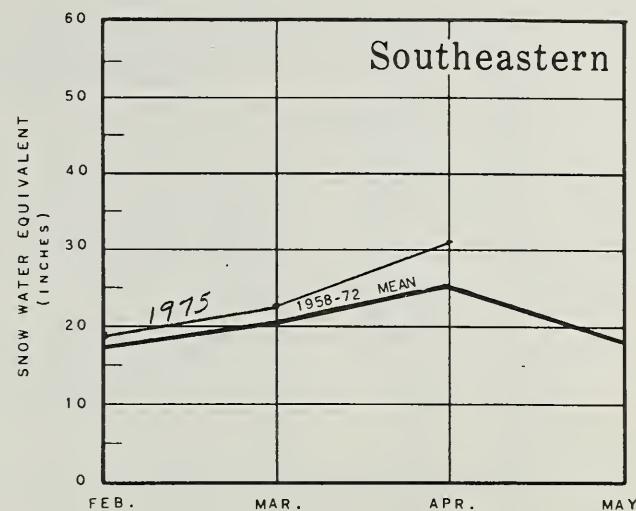
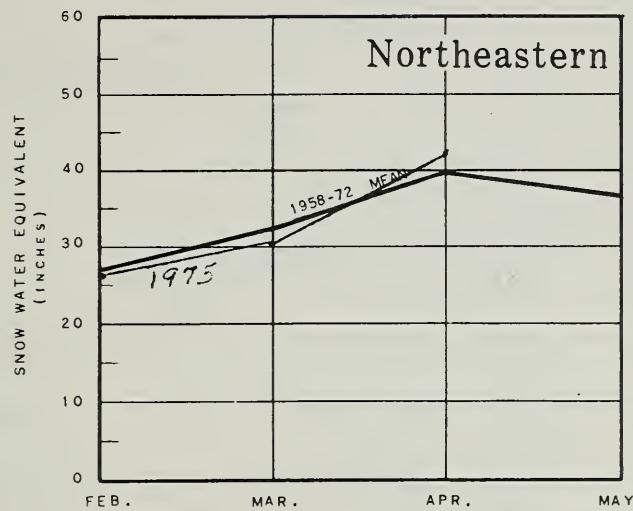
1/ - Preliminary analysis by National Weather Service from data furnished by Meteorlogical Services of Canada and the National Weather Service.

2/ - Departure from 15-year (1958-72) drainage division average.

WASHINGTON SNOW COVER

1975

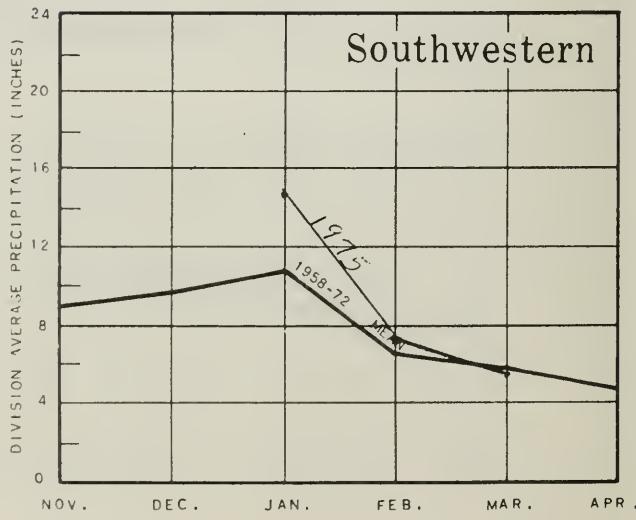
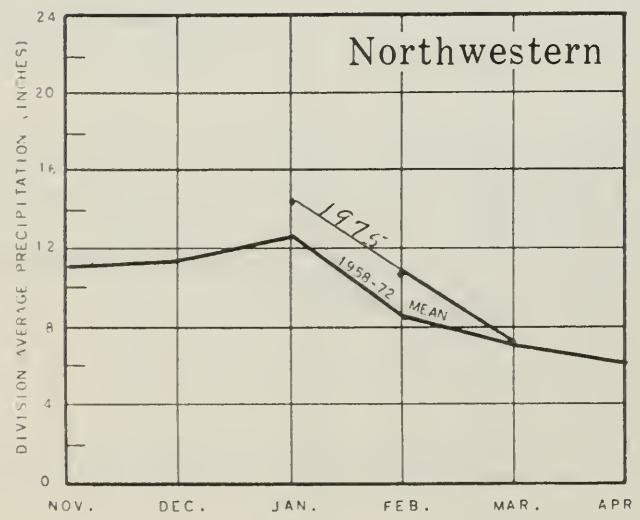
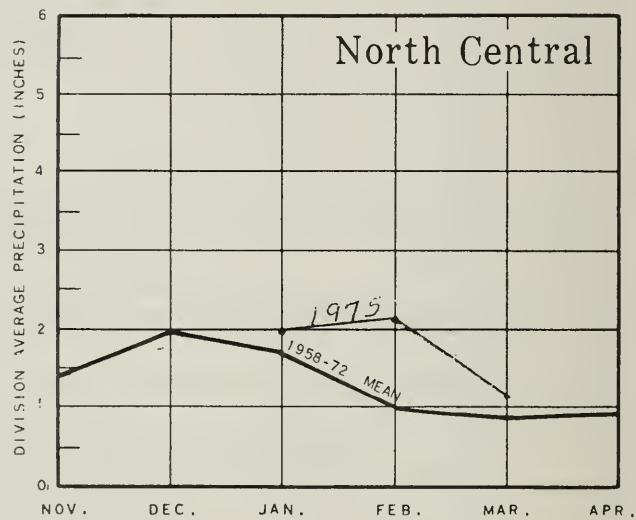
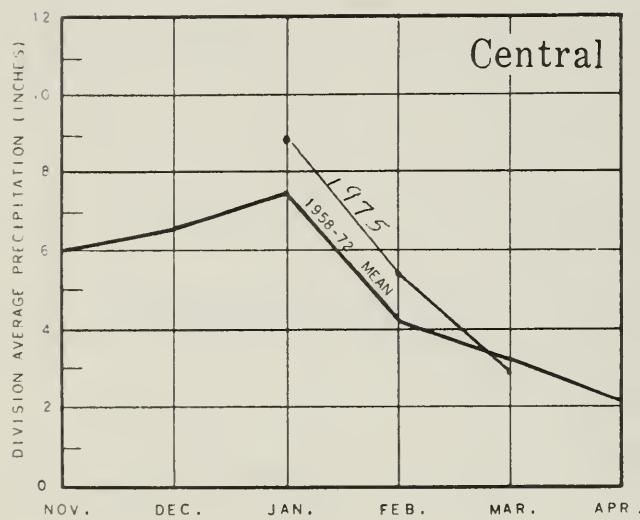
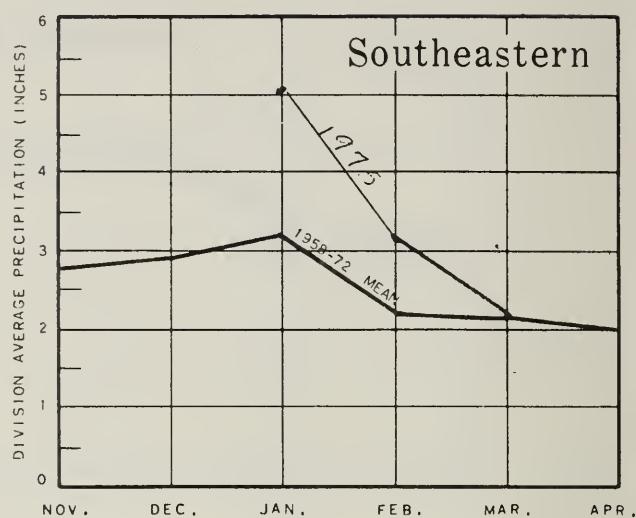
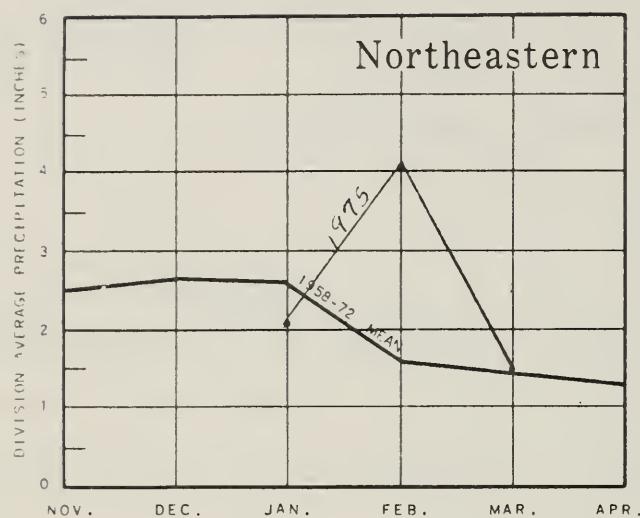
DRAINAGE AREAS

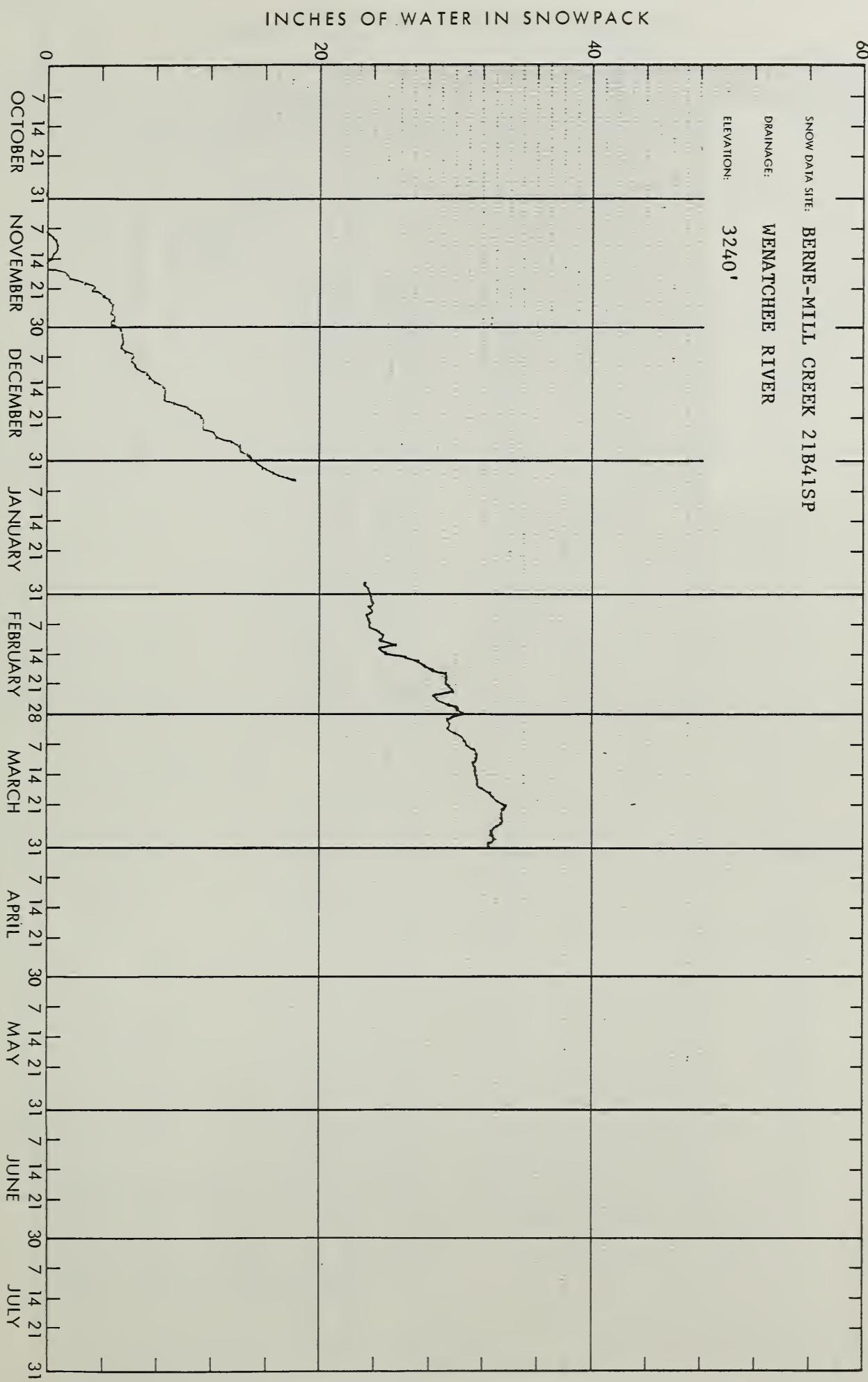


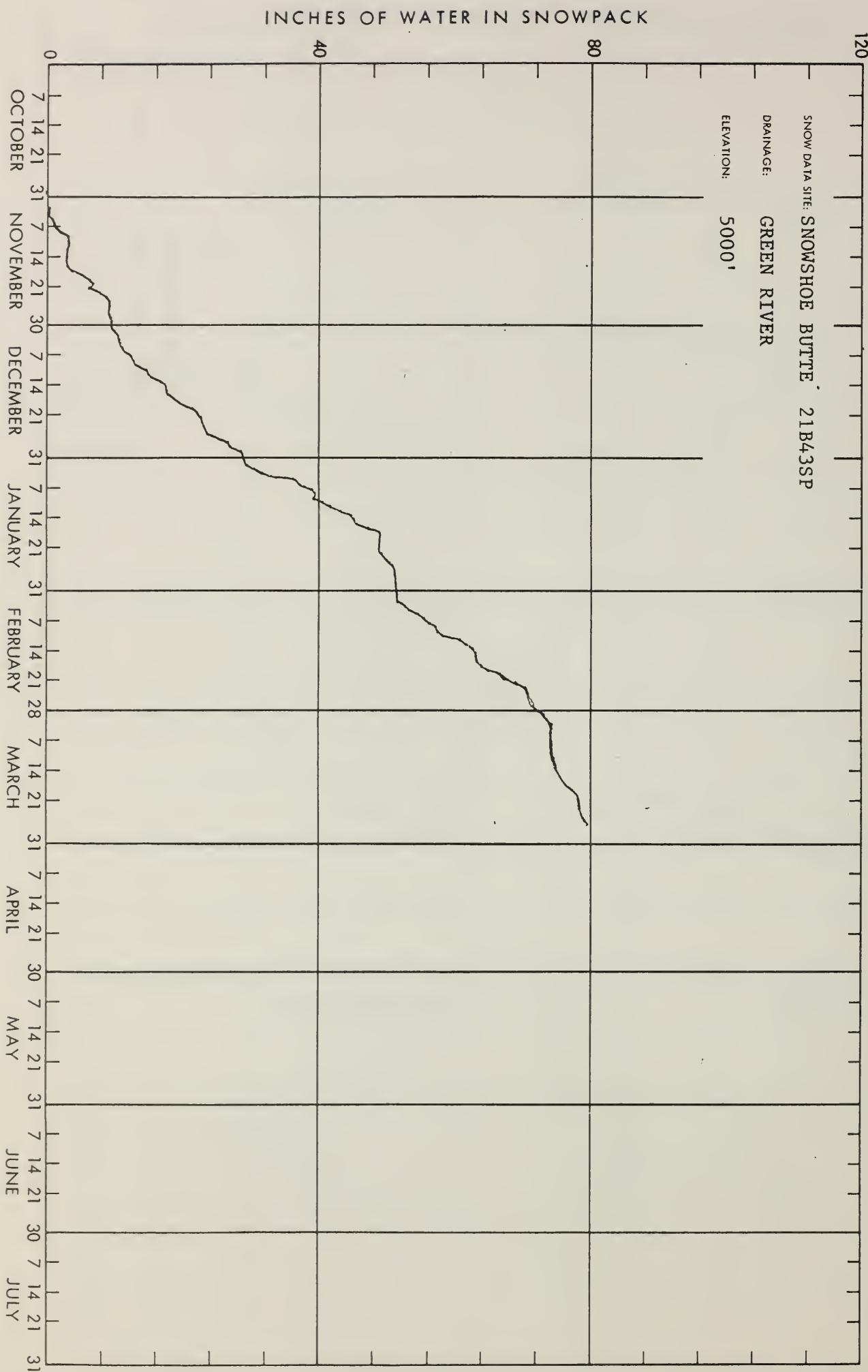
WASHINGTON VALLEY PRECIPITATION

1975

DRAINAGE AREAS







SNOW DATA TO APRIL 1, 1975 - APPENDIX 1

SNOW

DRAINAGE BASIN and/or SNOW COURSE			THIS YEAR			PAST RECORD		
NAME	Number	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	Last Year	Average [#]

U P P E R C O L U M B I A D R A I N A G E

PEND OREILLE RIVER

Baree Creek	15B11	5500	4/1	144	59.1	75.0	49.4
Baree Midway	15B16	4600	4/1	125	49.8	54.1	37.7
Baree Trail	15B15	3800	4/2	45	15.3	15.4	9.6
Benton Meadow	16A02	2344	3/28	26	8.8	2.4	3.4
Benton Spring	16A03	4900	3/28	72	23.8	32.1	19.4
Boyer Mountain	17A02	5250	3/28	94	33.2	41.6	27.9
Brush Creek Timber	14A13	5000	3/26	43	12.6	13.0	-
Bunchgrass Meadow	17A01	5000	3/28	96	36.1	46.2	31.4
Chewelah	17A04	4923	3/29	64	21.0	-	18.5
Heart Lake Trail	14C10	4800	4/1	86	28.7	33.0	23.4
Hoodoo Basin	15C10	6000	4/1	149	56.8	73.6	53.8
Hoodoo Creek	15C01	5900	4/1	142	51.7	67.7	50.3
Lookout	15B02	5250	3/28	119	42.4	47.1	38.1
Mosquito Ridge	16A04A	5100	3/31	119	46.0	57.6	40.3
Nelson	19-Can	3050	3/27	61	20.1	20.8	15.7*
Schweitzer Bowl	16A06	4500	3/27	115	40.5	45.3	31.7
Schweitzer Ridge	16A05	6100	3/27	172	70.4	66.0	48.3
Smith Creek	16A01	4800	4/2	149	55.4	70.5	48.5
Winchester Creek	17A03	2970	3/26	50	15.4	13.2	11.8

KETTLE RIVER

Barnes Creek	90-Can	5300	3/30	65	22.1	23.6	21.2*
Big White Mtn.	154-Can	5500	3/31	72	27.0	30.0	19.8*
Boulder Road	18A02	1450	3/27	12	4.3	1.6	2.6
Butte Creek	18A03	4070	3/27	45	12.3	14.3	10.1
Cabin Creek	18A08	3170	3/27	36	10.5	10.8	9.2
Carmi	126-Can	4100	3/31	34	11.4	8.6	6.3*
Farron # 1	17-Can	4000	3/26	54	15.3	18.8	13.4*
Farron # 2	243-Can	4000	3/26	54	16.2	18.9	New
Goat Creek	18A04	3595	3/27	31	9.0	8.9	6.0
Graystoke Lake	5-Can	5950	3/26	62	20.2	28.5	23.1*
Monashee Pass	48A-Can	4500	3/30	48	15.9	15.8	14.1*
Old Glory Mtn.	42-Can	7000	3/31	100	36.8	48.6	28.3*
Snow Caps Creek	18A05	2150	3/27	14	5.3	1.8	2.3
Snow Caps Trail	18A06	2720	3/27	22	7.1	5.9	5.7
Summit G. S.	18A07	4600	3/27	40	11.7	10.4	8.6
Trapping Creek Lower	166-Can	3050	3/31	45	15.2	5.4	3.3*
Trapping Creek Upper	165-Can	4450	3/31	25	8.6	14.4	9.5*

Average based on 1958-72 average

* Average for years of record

SNOW DATA TO APRIL 1, 1975 - APPENDIX 2

SNOW

DRAINAGE BASIN and/or SNOW COURSE			THIS YEAR			PAST RECORD		
NAME	Number	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	Last Year	Average #

COLVILLE RIVER

Baird	17A06	3215	3/28	39	11.8	9.3	5.7
Carlson	18A09	2885	3/29	26	9.6	0.0	2.6
Chewelah	17A04	4925	3/29	64	21.0	-	18.5
Stranger Mountain	17A05	4990	3/29	57	18.7	22.6	14.6
Togo	18A10	3370	3/29	61	20.0	17.0	12.5

SPOKANE RIVER

Above Burke	15B08	4100	3/28	87	32.2	31.3	25.6
Above Roland	15B07	4350	3/31	107	40.9	50.2	35.8
Below Roland	15B06	3770	3/31	55	20.2	21.8	17.4
Copper Ridge	16B02	4800	3/27	97	38.0	41.6	30.1
Forty-nine Meadows	15B03	5000	3/28	103	30.6	41.8	34.9
Fourth of July Summit	16B03	3100	3/28	40	13.7	14.2	7.8
Granite Peak	15B13A	6000	3/28	144	43.2	59.0	47.5
Kellogg Peak	16B05A	5560	3/31	107	40.4	52.9	34.7
Lookout	15B02	5250	3/28	119	42.4	47.1	38.1
lost Lake	15B14A	6000	3/28	186	63.2	89.2	62.1
Lower Sands Creek	16B01	3400	3/27	64	22.2	31.2	20.7
Medicine Ridge	15B04A	6150	3/28	143	43.8	60.6	48.1
Mosquito Ridge	16A04A	5110	3/31	119	46.0	57.6	40.3
Roland Summit	15B05A	5200	3/31	118	44.8	59.5	39.2
Sherwin	16C01	3200	3/27	57	20.8	22.7	13.8
Sunset	15B09A	5600	3/31	115	41.8	52.0	39.3

SANPOIL RIVER

Sherman Creek Pass	18A01	5350	3/27	61	18.5	24.3	15.5
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OKANOGAN RIVER

Aberdeen Lake	6-Can	4300	3/30	35	10.2	6.8	6.1*
Blackwall Peak	100-Can	6250	3/27	94	35.4	49.3	35.3*
Bouleau Creek	31-Can	5000	3/31	52	17.9	16.9	12.0*
Bouleau Lake	234-Can	4580	3/29	62	22.0	20.3	16.3*
Brenda Mine	193-Can	4800	3/27	55	18.1	19.1	14.0*
Brookmere	27-Can	3200	3/27	42	11.5	11.2	9.8*
Carrs Landing Upper	168-Can	3200	3/29	25	7.9	4.1	3.2*
Clark +	19A08a	7000	3/31	84	30.2	42.2	23.3
Enderby	130-Can	6250	3/28	112	32.1	58.2	38.9*
Esperon Creek Lower	164-Can	4400	3/31	50	16.9	18.1	12.9*
Esperon Creek Middle	163-Can	4700	3/31	58	21.2	23.9	15.9*
Esperon Creek Upper	162-Can	5400	3/31	68	25.5	31.7	19.5*
Freezeout Meadows New	20A38	5000	3/27	110	43.0	82.5	29.9

Average based on 1958-72 average

* Average for years of record

+ Snow water equivalent estimated from aerial stadia observation

SNOW DATA TO APRIL 1, 1975 - APPENDIX 3

SNOW

DRAINAGE BASIN and/or SNOW COURSE			THIS YEAR			PAST RECORD		
NAME	Number	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	Last Year	Average #

OKANOGAN RIVER (Cont.)

Graystoke Lake	5-Can	5950	3/26	62	20.2	28.5	23.1*
Hamilton Hill	107-Can	4900	3/26	56	17.7	18.6	16.0*
Harts Pass	20A05A	6500	3/27	131	50.7	70.1	47.2
Horseshoe Basin +	19A05a	7000	3/31	64	23.7	26.6	13.5
Isintok Lake	152-Can	5510	3/29	37	11.6	13.4	8.1*
Lost Horse Mountain	105-Can	6300	Late Report			14.6	9.1*
Loup Loup	19A07	4650	3/28	39	12.3	17.3	9.3
McCulloch	4-Can	4200	3/22	37	10.0	9.8	6.7*
Missezula Mountain	106-Can	5100	3/27	43	12.9	14.2	8.4*
Mission Creek	5A-Can	6000	3/26	74	25.3	29.8	20.0*
Monashee Pass	48A-Can	4500	3/30	48	15.9	15.8	14.1*
Mount Kobau	156-Can	5950	4/1	47	14.9	23.7	13.6*
Muckamuck +	19A09a	6390	3/31	55	19.8	30.7	17.8
Mutton Creek No. 1	19A01	5700	3/27	57	16.4	28.4	14.2
Mutton Creek No. 2	19A04	6000	3/27	50	15.6	26.8	15.4
Mutton Creek No. 2 SP	19A11SP	6000	3/28	-	12.5	22.6	New
New Copper Mountain	46A-Can	4300	3/28	26	7.0	7.0	5.3*
New Penticton Res. #2	183-Can	5225	4/1	42	9.5	13.0	8.8*
Nickel Plate Mtn.	47-Can	6200	3/29	34	11.6	12.3	7.9*
Oyama Lake	203-Can	4400	3/31	34	9.8	9.0	7.5*
Paysayten +	20A28a	4300	3/31	64	23.7	20.4	16.0
Postill Lake	55-Can	4500	3/31	37	12.3	13.7	8.9*
Quartette Lake	34-Can	4000	3/28	43	11.3	16.1	15.1*
Rusty Creek	19A03	4000	3/26	35	9.5	13.4	7.0
Salmon Meadows	19A02	4500	3/28	43	11.2	18.7	10.3
Silver Star Mountain	99-Can	6050	3/28	89	35.1	43.9	27.7*
Starvation Mtn. +	19A10a	6750	3/31	65	23.4	31.1	21.9
Summerland Reservoir	3A-Can	4200	3/31	46	15.1	12.6	9.3*
Touts Coulee	19A06	2845	3/27	14	4.5	2.9	1.1
Trout Creek	3-Can	4700	3/29	40	12.1	9.6	7.5*
Vaseux Creek	233-Can	4600	3/28	35	8.4	8.6	7.7*
White Rocks Mountain	70-Can	6000	3/26	90	36.5	40.2	22.9*

ENTIAT RIVER

Blue Creek G. S.	20B28a	5425	3/28	126	47.9	57.8	New
Brief	20B19	1600	3/22	21	8.0	0.0	4.0
Entiat Meadows +	20A33a	4800	3/28	138	52.4	72.4	48.1
Entiat River Trail +	20A34a	3150	3/28	79	27.6	28.9	21.3
Four Mile Ridge +	20B27a	7000	3/28	100	38.0	51.6	-
Fox Camp +	20A36a	6510	3/28	154	58.5	75.7	59.0
Pope Ridge	20B20	4300	3/25	70	24.5	28.3	16.9
Pugh Ridge +	20A32a	6400	3/28	105	36.8	58.7	39.6
Shady Pass	20A37	6200	3/26	93	35.7	45.1	-
Snow Brushy +	20A35a	3850	3/28	129	45.2	52.8	40.9
Tommy Creek +	20B21a	5300	3/28	84	31.9	39.1	27.1

Average based on 1958-72 average

* Average for years of record

+ Snow water equivalent estimated from aerial stadia observation

SNOW DATA TO APRIL 1, 1975 - APPENDIX 4

SNOW

DRAINAGE BASIN and/or SNOW COURSE			THIS YEAR			PAST RECORD	
NAME	Number	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	Last Year
							Average #

METHOW RIVER

Billy Goat Pass +	20A10a	6409	3/31	94	34.8	44.4	32.0
Dollar Watch +	20A29a	7000	3/31	89	32.9	40.0	29.3
Harts Pass	20A05A	6500	3/27	131	50.7	70.1	47.2
Horseshoe Basin +	19A05a	7000	3/31	64	23.7	26.6	13.5
Loup Loup	19A07	4650	3/28	39	12.3	17.3	9.3
Mutton Creek No. 1	19A01	5700	3/27	57	16.4	28.4	14.2
Mutton Creek No. 2	19A04	6000	3/27	50	15.6	26.8	15.4
Mutton Creek No. 2 SP	19A11SP	6000	3/27	-	12.5	22.6	New
Rusty Creek	19A03	4000	3/26	35	9.5	13.4	7.0
Salmon Meadows	19A02	4500	3/28	43	11.2	18.7	10.3
War Creek Pass +	20A31a	6500	Drifted	Over		56.6	43.5

CHELAN LAKE BASIN

Cloudy Pass +	20A22a	6500	3/25	146	58.4	77.8	54.0
Little Meadows +	20A24a	5275	3/25	148	59.2	79.2	45.8
Lyman Lake	20A23A	5900	3/25	179	72.5	91.6	61.5
Park Creek Ridge	20A12A	4600	3/27	142	55.2	61.6	46.1
Rainy Pass	20A09	4780	3/27	125	46.4	63.2	41.6
Safety Harbor	20A30A	6300	Not Measured			44.3	29.9
War Creek Pass +	20A31a	6500	Drifted Over			56.6	43.5

WENATCHEE RIVER

Berne-Mill Creek	21B23	3170	3/14	93	37.3	-	-
			3/31	99	40.5	48.0	27.6
Berne-Mill Creek New SP	21B41SP	3240	3/31	83	36.2	42.2	23.3
Blewett Pass No. 2	20B02	4270	3/28	53	21.1	26.0	16.5
Chiwaukum G. S.	20B16	1810	3/14	36	13.6	-	-
			3/31	35	12.2	15.9	10.5
Fish Lake	21B04	3371	3/25	115	43.5	50.6	35.1
Lake Wenatchee	20B05	1970	3/14	48	18.4	-	-
			3/31	43	16.6	18.4	11.9
Leavenworth R. S.	20B17	1127	3/12	8	3.4	1.4	-
			4/1	0	0.0	0.0	0.7
Lyman Lake	20A23A	5900	3/25	179	72.5	91.6	61.5
Merritt	20B18	2140	3/14	63	22.3	-	-
			3/31	61	23.2	22.4	14.9
Stevens Pass	21B01	4070	3/14	146	61.8	83.1	50.8
			3/31	159	64.7	77.0	53.7
Stevens Pass Sand Shed	21B45	3700	3/14	106	42.8	64.8	-
			3/31	114	49.0	60.8	-

Average based on 1958-72 average

+ Snow water equivalent estimated from aerial stadia observation

SNOW DATA TO APRIL 1, 1975 - APPENDIX 5

SNOW

DRAINAGE BASIN and/or SNOW COURSE			Date of Survey	THIS YEAR		PAST RECORD	
NAME	Number	Elevation		Snow Depth (Inches)	Water Content (Inches)	Last Year	Average [#]

SQUILCHUCK CREEK

Beehive Springs	20B03	4400	3/27	34	12.0	15.1	7.8
Scout-A-Vista	20B04	3400	3/27	35	12.3	11.8	6.9

STEMILT CREEK

Jump-Off	20B08	4450	3/26	37	13.4	12.8	8.0
Stemilt Slide	20B06	5000	3/26	52	18.7	12.3	15.5
Upper Wheeler	20B07	4400	3/26	38	15.7	11.4	9.0

COLOCKUM CREEK

Colockum Creek Upper	20B22	5300	3/28	50	19.5	20.3	-
Colockum Creek Lower	20B23	4300	3/28	37	12.2	13.5	-

YAKIMA RIVER

Ahtanum R. S.	21C11	3100	3/26	32	13.0	10.6	5.2
Big Boulder Creek	21B09	3200	3/25	78	27.7	39.0	18.0
Blewett Pass No. 2	20B02	4270	3/28	53	21.1	26.0	16.5
Bumping Lake	21C08	3450	3/21	68	21.6	27.9	16.9
			3/31	58	20.9	28.2	16.2
Bumping Lake New	21C36	3400	3/21	85	27.9	34.6	21.4
			3/31	73	26.5	36.2	20.7
Cayuse Pass	21C06	5300	3/27	245	97.9	129.9	90.2
Colockum Pass	20B09	5370	3/31	55	18.9	23.6	17.4
Cooke Creek	20B10	4123	3/31	33	11.6	11.4	5.1
Corral Pass	21B13	6000	3/27	151	54.9	63.7	41.6
Fish Lake	21B04	3371	3/25	115	43.5	50.6	35.1
Green Lake	21C10	6000	3/26	125	36.3	46.8	36.2
Grouse Camp	20B11	5385	Not Measured		25.3	17.1	
High Creek	20B12	2930	4/1	21	7.4	8.6	2.3
Joe Lake	21B46a	4624	3/24	217	86.8	98.9	-
Lake Cle Elum	21B14M	2200	3/14	35	13.4	13.0	7.8
			3/28	36	14.2	7.8	4.5
Lemah Creek +	21B47a	3327	3/24	148	56.2	64.5	-
Manashtash	20C01	3935	3/28	25	8.2	7.4	2.2
Morse Lake	21C17	5400	3/28	176	68.6	-	61.9
Nanum	21B39	2340	4/1	39	12.2	13.9	8.2
Olallie Meadows	21B02	3625	3/27	158	59.4	89.1	48.8
Satus Pass	20D01	4030	3/31	49	16.6	16.2	8.6
Stampede Pass SP	21B10	3860	3/16	-	56.6	66.8	41.2
			4/1	-	57.2	61.1	43.4
Trail Creek	20B14	3360	3/31	Trace	0.0	0.0	0.1
Tunnel Avenue	21B08	2450	3/13	81	33.0	36.2	24.0
			3/27	91	35.6	35.8	24.1

Average based on 1958-72 average

+ Snow water equivalent estimated from aerial stadia observation

SNOW DATA TO APRIL 1, 1975 - APPENDIX 6

SNOW	THIS YEAR			PAST RECORD	
	DRAINAGE BASIN and/or SNOW COURSE		Date of Survey	Snow Depth (Inches)	Water Content (Inches)
	NAME	Number			

YAKIMA RIVER (Cont.)

Van Epps Pass +	20B26a	5925	3/24	146	52.6	74.4	-
Walters Flat	20B15	3360	4/1	27	10.4	10.6	5.3
Waptus Lake +	21B49a	3024	3/24	138	52.4	59.8	-
White Pass (E. Side)	21C28	4500	3/18	92	30.6	39.7	24.7
			4/2	90	32.4	36.9	25.9
White Pass (L. Lake)	21C27	4500	3/28	103	37.9	44.9	31.1

AHTANUM CREEK

Ahtanum R. S.	21C11	3100	3/26	32	13.0	10.6	5.2
Green Lake	21C10	6000	3/26	125	36.3	46.8	36.2

LOWER COLUMBIA DRAINAGEASOTIN CREEK

Spruce Springs	17C04	5700	3/30	85	31.1	39.5	26.6
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MILL CREEK

Homestead	17C01	4030	4/2	32	13.9	16.9	7.3
Martin Springs	17C02	4400	4/2	57	18.4	25.7	14.2
Tollgate	18D3M	5070	3/26	84	30.7	48.4	25.1

KLICKITAT RIVER

Satus Pass	20D01	4030	3/31	49	16.6	16.2	8.6
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WHITE SALMON RIVER

Cultus Creek	21C12	4000	3/27	143	51.4	82.7	49.4
Surprise Lakes	21C13A	4250	3/28	150	59.7	87.3	53.9

WIND RIVER

Old Man Pass	21D19	3100	3/28	63	20.3	32.9	19.7
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Average based on 1958-72 average

+ Snow water equivalent estimated from aerial stadia observation

SNOW DATA TO APRIL 1, 1975 - APPENDIX 7

SNOW

DRAINAGE BASIN and/or SNOW COURSE			THIS YEAR			PAST RECORD		
NAME	Number	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	Last Year	Average #

LEWIS RIVER

Blue Lake +	21C22a	4800	3/27	248	99.2	132.0	84.8
Bob's Trail	21C21	2200	3/28	45	15.5	24.2	15.1
Calamity Ridge +	22D01a	2500	3/28	20	7.0	5.5	5.6
Council Pass +	21C18a	4200	3/27	134	51.5	63.4	42.9
Cultus Creek	21C12	4000	3/27	143	51.4	82.7	49.4
Divide Meadow +	21C29a	5600	3/27	170	66.3	79.2	60.6
Grand Meadow	21C25	3500	3/27	86	32.3	44.1	27.7
Lone Pine Shelter	21C26	3800	3/27	128	44.9	83.2	43.3
Marble Mountain +	22C05a	3200	3/27	83	34.0	68.6	38.2
Mosquito Meadows	21C19	4100	3/27	129	45.3	74.1	44.9
New Muddy River	22C06	2000	3/28	15	5.7	3.4	9.5
Old Man Pass	21D19	3100	3/28	63	20.3	32.9	19.7
Plains of Abraham +	21C1a	4400	3/27	188	73.3	108.9	71.8
Smith Creek Road	22C04	2100	3/28	43	17.1	23.9	17.7
Spencer Meadow +	21C20a	3400	3/28	74	28.1	47.8	25.7
Surprise Lakes	21C13A	4250	3/28	150	59.7	87.3	53.9
Table Mountain +	21C24a	4200	3/27	154	58.5	77.4	48.8
Timbered Pead +	21D18a	3000	3/28	58	20.3	33.1	17.8

COWLITZ RIVER

Cayuse Pass	21C06	5300	3/27	245	97.9	129.9	90.2
Mosquito Meadows	21C19	4100	3/27	129	45.3	74.1	44.9
Ohanapecosh	21C32	2200	3/27	52	22.6	20.5	15.7
Packwood Lake	21C31	2870	3/27	40	16.6	23.3	13.1
Pigtail Peak	21C33	5900	3/28	183	70.7	84.0	64.7
Plains of Abraham +	21C01a	4400	3/27	188	73.3	108.9	71.8
Potato Hill	21C14	4500	3/27	113	42.4	54.9	33.3
White Pass (E. Side)	21C28	4500	3/18	92	30.6	39.7	24.7
			4/2	90	32.4	36.9	25.9
White Pass (L. Lake)	21C27	4500	3/28	103	37.9	44.9	31.1
Willame Creek	21C30	3250	3/27	96	36.0	55.6	31.4

PUGET SOUND DRAINAGENISQUALLY RIVER

Ghost Forest	21C04	4550	3/27	142	55.7	71.3	48.0
Longmire	21C03	2760	3/27	38	15.3	23.5	10.2
New Paradise Park	21C35	5500	3/27	220	91.0	108.8	74.1
Stem Glade	21C01	5050	3/27	211	85.1	95.6	73.4

Average based on 1958-72 average

+ Snow water equivalent estimated from aerial stadia observation

SNOW DATA TO APRIL 1, 1975 - APPENDIX 8

SNOW

DRAINAGE BASIN and/or SNOW COURSE			THIS YEAR			PAST RECORD		
NAME	Number	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	Last Year	Average [#]

WHITE RIVER

Cayuse Pass	21C06	5300	3/27	245	97.9	129.9	90.2
Corral Pass	21B13	6000	3/27	151	54.9	63.7	41.6
Morse Lake	21C17	5400	3/28	176	68.6	-	61.9

GREEN RIVER

Airstrip	21B24	1800	3/27	23	10.2	0.0	1.3
Charley Creek	21B25	1200	3/27	0	0.0	0.0	0.0
Cougar Mountain SP	21B42SP	3200	3/27	76	33.0	36.6	-
Grass Mtn. No. 2	21B27	2900	3/27	72	26.0	41.7	24.4
Grass Mtn. No. 3	21B28	2100	3/27	36	13.7	1.5	4.4
Lester Creek	21B29	3100	3/27	96	34.4	40.2	27.0
Lynn Lake	21B50	4000	3/27	77	31.3	51.7	-
Sawmill Ridge	21B29	4700	3/27	123	47.8	61.0	41.5
Snowshoe Butte SP	21B43SP	5000	3/27	178	69.4	-	-
Stampede Pass SP	21B10	3860	3/16	-	56.6	66.8	41.2
			4/1	-	57.2	61.1	43.4
Twin Camp	21B30	4100	3/27	95	35.5	44.5	25.9

CEDAR RIVER

City Cabin	21B03	2390	3/28	65	26.6	31.8	15.5
Mt. Gardner	21B21	3300	3/28	60	26.1	33.5	18.0
Mt. Lindsay	21B16	2500	3/31	62	23.3	24.4	15.9
Mt. Washington	21B15	3000	3/31	40	16.1	16.4	7.5
Rex River	21B17	2400	3/31	72	28.4	33.2	13.5
S. F. Cedar	21B06	3000	3/28	90	34.0	38.3	20.6
Tinkham Creek	21B20	3400	3/28	99	40.0	48.7	23.7

SNOQUALMIE RIVER

Alpine Meadow	21B48	3500	3/27	136	56.0	82.0	-
Lake Elizabeth	21B19	2900	3/26	130	47.6	82.8	48.5
Olallie Meadows	21B02	3625	3/27	158	59.4	89.1	48.8
S. F. Tolt	21B18	1900	3/27	11	4.2	0.0	0.8

SKYKOMISH RIVER

Lake Elizabeth	21B19	2900	3/26	130	47.6	82.8	48.5
Stevens Pass	21B01	4070	3/14	146	61.8	83.1	50.8
			3/31	159	64.7	77.0	53.7
Stevens Pass S. Shed	21B45	3700	3/14	106	42.8	64.8	-
			3/31	114	49.0	60.8	-

Average based on 1958-72 average

SNOW DATA TO APRIL 1, 1975 - APPENDIX 9

SNOW

DRAINAGE BASIN and/or SNOW COURSE			Date of Survey	THIS YEAR		PAST RECORD	
NAME	Number	Elevation		Snow Depth (Inches)	Water Content (Inches)	Last Year	Average [#]

SKAGIT RIVER

Beaver Creek Trail	21A04	2200	3/28	57	22.8	18.2	12.6
Beaver Pass	21A01	3680	3/28	95	34.6	56.2	33.7
Brown Top	21A28a	6000	3/27	182	71.8	90.2	-
Cloudy Pass	20A22a	6500	3/25	146	58.4	-	54.0
Devils Park	20A04	5900	3/27	132	51.0	67.2	45.6
Freezeout Cr. Trail	20A01	3500	3/27	48	15.4	19.2	12.5
Freezeout Meadows New	20A38	5000	3/27	110	43.0	82.5	29.9
Granite Creek	21A29A	3500	3/27	65	22.2	24.6	11.4
Harts Pass	20A05A	6500	3/27	131	50.7	70.1	47.2
Klesilkwa	35B-Can	3700	4/1	53	21.6	21.6	15.3*
Lyman Lake +	20A23A	5900	3/25	179	72.5	-	61.5
Meadow Cabins	20A08	1900	3/28	27	10.1	2.8	6.0
New Hozomeen Lake	21A30	2800	3/27	50	16.0	17.8	-
New Tashme	26A-Can	2500	4/1	44	16.9	14.6	10.8*
Quartette Lake	34-Can	4000	3/28	43	11.3	16.1	15.1*
Rainy Pass	20A09A	4780	3/27	125	46.4	63.2	41.6
Thunder Basin	20A07	4200	3/28	102	39.2	35.8	23.9

BAKER RIVER

Baker Pass +	21A27a	4900	3/29	224	89.6	-	-
Dock Butte	21A11A	3800	3/29	183	74.8	110.6	71.3
Easy Pass	21A07A	5200	3/29	226	96.0	-	87.0
Jasper Pass	21A06A	5400	3/29	239	96.0	-	93.6
Komo Kulshan	21A17	800	3/30	24	10.3	0.0	6.0
Marten Lake	21A09A	3600	3/29	201	80.2	125.0	78.1
Mount Blum +	21A18a	5800	3/29	178	71.2	-	-
Panorama New	21A26	4300	3/13	156	73.2	111.5	-
			4/1	187	70.7	112.0	-
Rocky Creek	21A12A	2100	3/29	97	39.0	51.9	29.2
Schreibers Meadow	21A10A	3400	3/29	175	71.4	104.2	65.6
S. F. Thunder Creek	21A14A	2200	3/30	36	13.9	7.6	5.3
Sulphur Creek	21A13	1600	3/30	47	19.4	18.0	13.6
Three Mile Creek	21A15	4500	3/30	3	1.2	0.0	1.7
Watson Lakes	21A08A	4500	3/29	168	67.6	107.5	71.2

NOOKSACK RIVER

Bald Mountain +	21A19a	4400	3/28	159	60.4	92.2	51.0
Canyon +	21A20a	5100	3/28	183	73.2	115.2	60.0
Glacier Creek	21A23	3700	3/27	81	30.4	43.2	23.4
Panorama New	21A26	4300	3/13	156	73.2	111.5	-
			4/1	187	70.7	112.0	-
Twin Lakes +	21A21a	5200	3/28	218	87.2	121.9	79.1

Average based on 1958-72 average

* Average for years of record

+ Snow water equivalent estimated from aerial stadia observation

SNOW DATA TO APRIL 1, 1975 - APPENDIX 10

SNOW

DRAINAGE BASIN and/or SNOW COURSE			THIS YEAR			PAST RECORD		
NAME	Number	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	Last Year	Average #

O L Y M P I C P E N I N S U L AMORSE CREEK

Cox Valley	23B14	4500	4/1	114	43.5	60.9	-
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ELWHA RIVER

Hurricane	23B03	4500	3/30	77	26.7	36.8	26.1
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SKOKOMISH RIVER

Black & White	23B07	4200	3/27	142	49.2	69.5	45.6
Black & White Lakes	23B06	4700	3/27	178	71.8	95.0	68.7
Four Streams	23B10	3000	3/27	121	41.2	56.6	34.7
Home Sweet Home	23B05	5200	3/27	211	82.7	113.7	80.6

Average based on 1958-72 average

Agencies Assisting with Snow Surveys

GOVERNMENT AGENCIES

Canada:

Department of Lands, Forests and Water Resources,
Water Resources Service, British Columbia

States:

Washington State Department of Ecology
Washington State Department of Natural Resources

Federal:

Department of the Army
Corps of Engineers
U. S. Department of Agriculture
Forest Service
U. S. Department of Commerce
NOAA, National Weather Service
U. S. Department of the Interior
Bonneville Power Administration
Bureau of Reclamation
Geological Survey
National Park Service

PUBLIC AND PRIVATE UTILITIES

Chelan County P.U.D.
Pacific Power and Light Company
Puget Sound Power and Light Company
Washington Water Power Company

OTHER PUBLIC AGENCIES

Okanogan Irrigation District
Wenatchee Heights Irrigation District

MUNICIPALITIES

City of Tacoma
City of Seattle

*Other organizations and individuals furnish valuable information for
snow survey reports. Their cooperation is gratefully acknowledged.*



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*"The Conservation of Water begins
with the Snow Survey"*